

HOUSE ROCK WASH BASIN

09383020 HOUSE ROCK WASH TRIBUTARY NEAR MARBLE CANYON, AZ

LOCATION.--Lat 36°42'05", long 111°55'45", in SE¹/₄SE¹/₄, sec11, T.38 N., R.4 E., Coconino County, Hydrologic Unit 15010001, at U.S. Highway 89 Alternate, 21 mi southwest of Marble Canyon Post Office.

DRAINAGE AREA.--3.54 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
----	-----	¹ 1,610	HP	1969	07-27-69	19	
1963	09-04-63	10	LT	1970	07-23-70	100	ES
1964	09-13-64	50	ES	1971	08-07-71	58	
1965	00-00-65	10	LT	1972	06-22-72	80	
1966	00-00-66	5.0	LT	1973	10-19-72	197	
1967	07-28-67	24		1974	11-04-73	5.0	LT
1968	00-00-68	39		1975	00-00-75	5.0	LT

¹Highest since 1934, year of occurrence unknown.

Discharge rating table developed January 1993

Gage height (ft)	Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)
5.0	143	11.0	3,490
6.0	390	12.0	4,280
7.0	848	13.0	5,110
8.0	1,410	14.0	5,990
9.0	2,050	15.0	6,910
10.0	2,750	16.0	7,860

Magnitude and probability of instantaneous peak flow based on period of record 1934, 1963-75

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
24.7	81.8	161	342	569	913
Weighted skew	(logs) =	0.37			
Mean	(logs) =	1.43			
Standard dev.	(logs) =	0.59			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
209	3.7	5,290	2.3	3.0	9.6	1.5	3.2

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